electronica mechatronic systems

# AM-CELL C Series

The AM-CELL C Series is an automated optical 3D inspection system combining a 3D scanner, robot, 3D digitization software, and central control platform, designed for complex parts and medium-to-large structural components. It automates the entire workflow—from path planning and measurement to analysis—freeing you from complex tasks.

Its modular units enable flexible layouts and multi-positioner operations. Supporting loads from 200–1000 kg and various fixtures, it effortlessly handles metal sheets, die-cast parts, welded assemblies, battery packs, and more.

Powered by DefinSight 3D software, it delivers smart path planning, high-precision measurement, and automated reporting with direct MES/QMS integration. Together, these features let manufacturers build fast, precise, and interconnected inspec- tion systems that improve efficiency and reduce costs.

## Pro-Level Automated Measurement

Automates inspection from path planning to measurement and reporting.
**Simulation**: Virtual path planning & collision simulation—no programming skills needed.
**Automated Measurement**: Non-contact scanning detects holes, slots, edges.
**Error-Proofing**: Vision verification prevents mis-scans and misplacement.

## Engineered for Any Environment

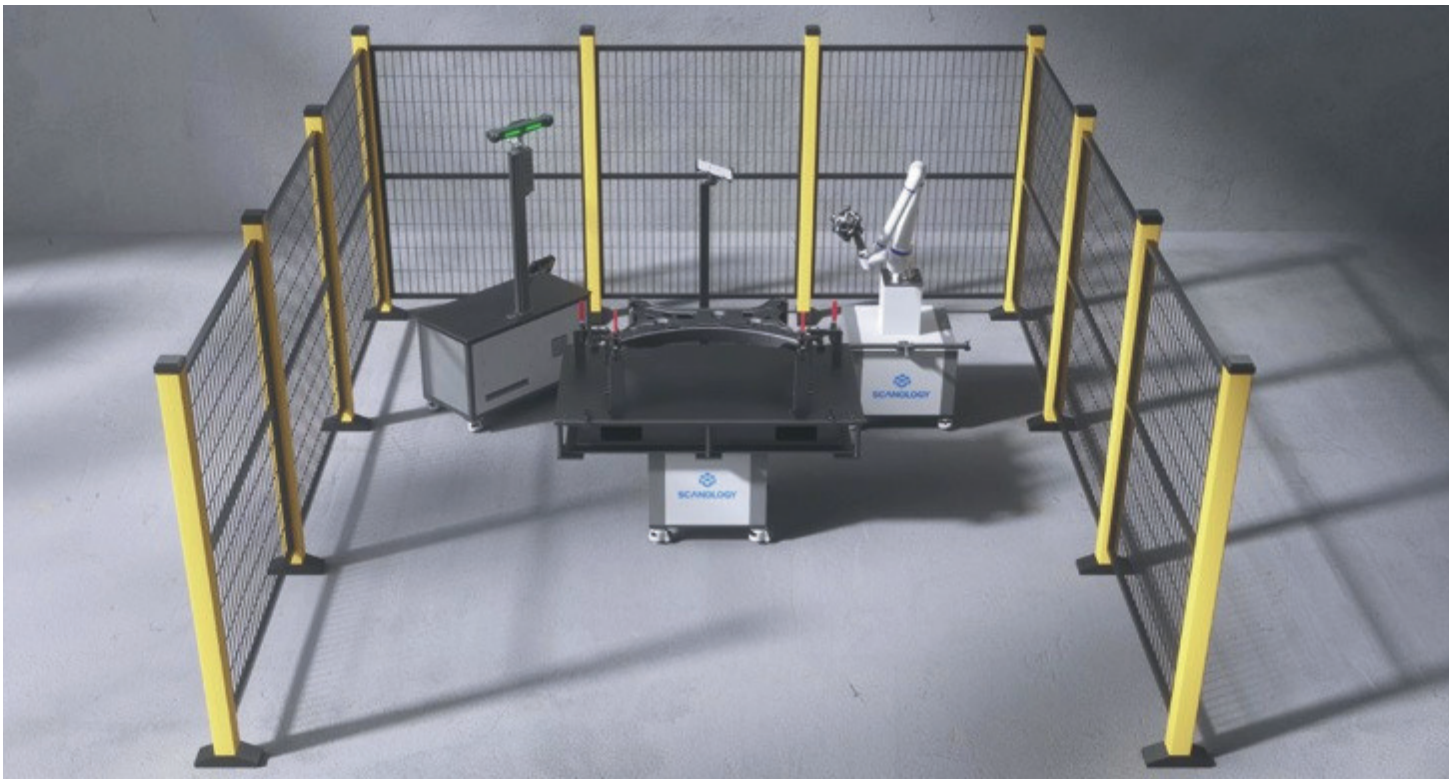
- Delivers consistent measurements in harsh conditions.
- High-precision optical 3D scanning—up to 0.020 mm accuracy at 6.63 million measurements/s.
- Multi-dimensional environmental sensors, supporting self-calibration.

## Smart Data for Efficient Monitoring

**Accurate Analysis**: Compare measurement results with CAD model in one click
**Data in Sync**: Import inspection results directly to MES, PLC, or QMS systems
**Process Monitoring:** Integrated SPC and trend analysis modules track production fluctuations

## Not Just a Turnkey Solution

- With modular units and standardized workflows, AM-CELL C breaks the limits of fixed layouts, offering flexible deployment and expansion.



## Technical Specifications

| Type | AM-CELL C13X | | AM-CELL C18X | |
|---|---|---|---|---|
| Space Size | 4 m × 3 m | | 5 m × 4 m | |
| Robot Type | Cobot, reaching 1300 mm | | Cobot, reaching 1800 mm | |
| 3D Scanner Supported | Full series of SCANOLOGY's Optical 3D Measurement System | | | |
| Communication Protocol | TCP/IP, USB 3.0, OPCUA | | | |
| Expanded Communication | Socket, Modbus-TCP | | | |
| Safety Mode | Active Emergency Stop + Safety with Force Feedback | | | |
| Input Voltage | AC ~ 220 V / 50 - 60 Hz | | | |
| Equipment Power | 1.5 KW | | 3 KW | |
| **Turntable Type** | **TT200** | **TT500** | **TT800** | **TT1000** |
| Payload | 200 KG | 500 KG | 800 KG | 1000 KG |
| Maximum Object Size | D≤Ø1200 mm, H≤1000 mm | D≤Ø1500 mm, H≤1200 mm | D≤Ø1800 mm, H≤1500 mm | D≤Ø2200 mm, H≤1800 mm |
| Turntable Power | 0.75 KW | 1 KW | 1.5 KW | 2 KW |
| Motor Type | Absolute Servo Motor | | | |


Contact Us

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